STIC Search Report
EIC 2800

STIC Database Tracking Number: 218383

To:	Jose Dees
Location:	Jefferson 8D59
Date:	March 19, 2007
Art Unit:	2800
Serial Number:	09/616821
Patent Number:	5,781,043

From:	Diane Jackson
Location:	EIC 2800
JEF:	4B68
Phone:	571-272-2540

diane.jackson@uspto.gov

Search Notes

Attached are litigation search results in Lexis Nexis, and CourtLink and Questel-Orbit.

No Litigation was found for Serial Number 09/616821 (Patent Number 5,781,043).

If you have any questions, please feel free to contact me.

Thanks.

Diane

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Welcome Diane Jackson!

Patent Search 5781043 3/19/2007

No cases found.

Return to Search

(Charges for search still apply)

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Source: **Combined Source Set 10** - **Utility, Design and Plant Patents**
Terms: **patno=5781043** (Edit Search | Suggest Terms for My Search)

932930 (08) 5781043 July 14, 1998

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5781043

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July 14, 1998

Direct current sum bandgap voltage comparator

REISSUE: July 14, 2000 - Reissue Application filed Ex. Gp.: 2816; Re. S.N. 09/616,821 (O.G. August 29, 2000)

INVENTOR: Slemmer, William Carl - Dallas, Texas, United States (US)

APPL-NO: 932930 (08)

FILED-DATE: September 18, 1997

GRANTED-DATE: July 14, 1998

ASSIGNEE-AT-ISSUE: SGS-Thomson Microelectronics, Inc., Carrollton, Texas, United States (US), United States company or corporation (02)

LEGAL-REP: Galanthay, Theodore E.; Hill, Kenneth C.; Jorgenson, Lisa K.

PUB-TYPE: July 14, 1998 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

REL-DATA:
Continuation of Ser. No. 606233, February 23, 1996, ABANDONED
, which is a Continuation of Ser. No. 56301, April 30, 1993, ABANDONED

US-MAIN-CL: 327#78

US-ADDL-CL: 327#77, 327#361, 327#539, 327#541, 327#542, 327#543

CL: 327

SEARCH-FLD: 327#74, 327#77, 327#78, 327#530, 327#538, 327#540, 327#541, 327#543, 327#545, 327#546, 327#361, 327#539, 327#542

IPC-MAIN-CL: [6] H03K 005#22

PRIM-EXMR: Cunningham; Terry

Query/Command : prt ful legalall max

1 / 2 FAMPAT - ©QUESTEL-ORBIT - image

FAN - 20042772736120

PN - US5781043 A 19980714 [US5781043]
STG: United States patent
AP : 1997US-0932930 19970918
FD : Cont. of US606233 19960223 [1996US-0606233] (Abandoned)
FD : Cont. of US56301 19930430 [1993US-0056301] (Abandoned)

TI - Direct current sum bandgap voltage comparator

PA - SGS THOMSON MICROELECTRONICS

PA0 - SGS-Thomson Microelectronics, Inc., Carrollton TX [US]

IN - SLEMMER WILLIAM CARL

PR - 1993US-0056301 19930430; 1996US-0606233 19960223; 1997US-0932930 19970918

IC - G01R-019/165
G05F-003/08
G05F-003/26
G05F-003/30
G11C-005/14
H03K-005/22

ICAA - G01R-019/165 [2006-01 A - I R M EP]; G05F-003/30 [2006-01 A - I R M EP]; G11C-005/14 [2006-01 A - I R M EP]
G05F-003/26 [2006-01 A - N R M EP]

ICCA - G01R-019/165 [2006 C - I R M EP]; G05F-003/08 [2006 C - I R M EP]; G11C-005/14 [2006 C - I R M EP]

EC - G01R-019/165G2
G05F-003/30
G11C-005/14B

ICO - S05F-003/26A

PCL - ORIGINAL (O) : 327078000; CROSS-REFERENCE (X) : 327077000 327361000 327539000 327541000 327542000 327543000

CT - (US5781043)
US4473758; US4556804; US4617473; US4806789; US4958123; US5111071; US5272393; US5373227

AB - (US5781043)
A direct current sum bandgap voltage comparator for detecting voltage changes in a power supply. The direct current sum bandgap voltage comparator includes a summing node, current sources connected to the summing node and the power supply, and an indicator circuit connected to the summing node. Each current source supplies a current to the summing node wherein the summing node voltage level is responsive to the currents supplied. The indicator circuit is responsive to changes in the summing node voltage level and generates at an output a logical signal at one state when the summing node voltage level is greater than a predetermined value and generates the logical signal at the output at another state when the summing node voltage level is less than the predetermined value, the predetermined value corresponding to a preselected power supply voltage.

OBJ - (US5781043)
The present invention relates to integrated circuits and in particular to MOS integrated circuits.
The present invention provides a direct current sum bandgap voltage comparator for detecting voltage changes in a power supply.

ADB - (US5781043)
Therefore it would be desirable to have a circuit that is smaller, simpler, and less sensitive to noise.
In addition to the area problem, typical bandgap reference circuits also are fairly sensitive to noise within the circuit.

ICLM - (US5781043)
1. A direct current sum bandgap voltage comparator comprising:
a summing node;
a plurality of current sources connected to the summing node, each current source further comprising at least one transistor, and each current source supplying a current to the summing node and being connected to a power supply voltage, wherein the currents sources supply currents according to a bandgap equation:
where VCC is the power supply voltage, VT is a predetermined threshold voltage of a transistor in a first current source within the plurality of current sources, VBE is a base emitter voltage of a transistor in a second current source within the plurality of current sources, k is Boltzman's constant, T is a temperature in kelvin of a transistor in a third current source within the plurality of current sources, q is an electronic charge constant, and K1, K2, and K3 are constants determined by a resistance and a transistor length in the first, second, and third current sources, respectively; and
an indicator circuit having an input connected to the summing node and generating a logical signal at an output, responsive to voltage changes in the summing node.
3. A direct current sum bandgap voltage comparator comprising:
a summing node;
a plurality of current sources connected to the summing node, each current source further comprising at least one transistor, and each current source supplying a current to the summing node and being connected to a power supply voltage; and
an indicator circuit having an input connected to the summing node and generating a logical signal at an output, responsive to voltage changes in the summing node, wherein the currents sources supply currents according to a bandgap equation:
where VCC is the power supply voltage, VT is a predetermined threshold voltage of a transistor in a first current source within the plurality of current sources, VBE is a base emitter voltage of a transistor in a second current source within the plurality of current sources, k is Boltzman's constant, T is a temperature in kelvin of a transistor in a third current source within the plurality of current sources, q is an electronic charge constant, and K1, K2, and K3 are constants determined by a resistance and a transistor length in the first, second, and third current sources, respectively, and wherein the plurality of current sources comprises four current mirrors.

UP - 2000-08

1/1 LGST - ©EPO

PN - US5781043 A 19980714 [US5781043]
AP - US93293097 19970918 [1997US-0932930]
ACT - 20000829 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000714
UP - 2003-22

1/1 CRXX - ©CLAIMS/RRX

AN - 3010567
PN - 5,781,043 A 19980714 [US5781043]

PA - SGS-Thomson Microelectronics Inc
PT - E (Electrical)
ACT - 20000714 REISSUE REQUESTED
Issue Date of O.G.: 20000829
Reissue Request Number: 09/616821
Examination Group responsible for Reissue process: 2816

UP - 2000-35
UACT - 2000-08-29

Search statement 2

Back

Extended Family Search Results

US5781043/PN Results : 4

PATENT FAMILY

#	Patent No.	Kind	Date	Applic.No.	Date
1)	DE69417622	D1	19990512	1994DE-6017622	19940428
	DE69417622	T2	19990909		
2)	EP-627817	A1	19941207	1994EP-0303084	19940428
	EP-627817	B1	19990407		
3)	JP07078481	A	19950320	1994JP-0092324	19940428
4)	US5781043	A	19980714	1997US-0932930	19970918

Priority :

1993US-0056301	19930430
1996US-0606233	19960223
1997US-0932930	19970918

1 / 4 PLUSPAT - ©QUESTEL-ORBIT

PN - DE69417622 D1 19990512 [DE69417622]

STG - (D1) Granted EP number in bulletin

OTI - (D1) Spannungskomparator mit einer Summierung von auf dem Bandgap-Prinzip beruhenden Gleichströmen und diesen enthaltender Versorgungsspannungsschalter

PA - (D1) ST MICROELECTRONICS INC (US)

IN - (D1) SLEMMER WILLIAM CARL (US)

IC - (D1) H03K-005/22 H03K-005/24 H03K-017/30

PN2 - DE69417622 T2 19990909 [DE69417622]

STG2 - (T2) Trans. Of EP patent

OTI2 - (T2) Spannungskomparator mit einer Summierung von auf dem Bandgap-Prinzip beruhenden Gleichströmen und diesen enthaltender Versorgungsspannungsschalter

PA2 - (T2) STMICROELECTRONICS (US)

IN2 - (T2) SLEMMER WILLIAM CARL (US)

IC2 - (T2) H03K-005/22 H03K-005/24 H03K-017/30

AP - DE69417622 19940428 [1994DE-6017622]

PR - US5630193 19930430 [1993US-0056301]

ICAA - G01R-019/165 [2006-01 A - I R M EP]; G05F-003/24 [2006-01 A - I R M EP]; G11C-005/14 [2006-01 A - I R M EP]

ICCA - G01R-019/165 [2006 C - I R M EP]; G05F-003/08 [2006 C - I R M EP]; G11C-005/14 [2006 C - I R M EP]

1 / 1 LEGALI - ©EPO

PN - DE69417622 D1 19990512 [DE69417622]DE69417622 T2 19990909 [DE69417622]

AP - DE69417622 19940428 [1994DE-6017622]

ACT - 20000504 DE/8364-A [+]
NO OPPOSITION DURING TERM OF OPPOSITION
EINSPRUCHSFRIST ABGELAUFEN OHNE DASS EINSPRUCH ERHOBEN WURDE

20030213 DE/8339-A [-]
CEASED/NON-PAYMENT OF THE ANNUAL FEE
WEGEN NICHTZ. D. JAHRESGEB. ERLOSCHEN

UP - 2003-22

2 / 4 PLUSPAT - ©QUESTEL-ORBIT - image

PN - EP0627817 A1 19941207 [EP-627817]
STG - (A1) Public. Of applic. With search report
TI - (A1) Direct current sum bandgap voltage comparator.
OTI - (A1) Bandabstandsspannungskomparator für eine Summe von Gleichströmen.
(A1) Comparateur de tension avec largeur de bande pour une somme de courants directs.
PA - (A1) SGS THOMSON MICROELECTRONICS (US)
IN - (A1) SLEMMER WILLIAM CARL (US)
IC - (A1) H03K-005/22 H03K-005/24
PN2 - EP0627817 B1 19990407 [EP-627817]
STG2 - (B1) Patent
TI2 - (B1) Voltage comparator with bandgap based direct current summing and power supply switch using it
OTI2 - (B1) Spannungskomparator mit einer Summierung von auf dem Bandgap-Prinzip beruhenden Gleichströmen und diesen enthaltender Versorgungsspannungsschalter
(B1) Comparateur de tension avec sommation de courants continus de type bandgap et commutateur d'alimentation l'utilisant
PA2 - (B1) ST MICROELECTRONICS INC (US)
IN2 - (B1) SLEMMER WILLIAM CARL (US)
IC2 - (B1) H03K-005/22 H03K-005/24 H03K-017/30
LA - ENGLISH (ENG)
AP - EP94303084 19940428 [1994EP-0303084]
PR - US5630193 19930430 [1993US-0056301]
ICAA - G01R-019/165 [2006-01 A - I R M EP]; G05F-003/24 [2006-01 A - I R M EP]; G11C-005/14 [2006-01 A - I R M EP]
ICCA - G01R-019/165 [2006 C - I R M EP]; G05F-003/08 [2006 C - I R M EP]; G11C-005/14 [2006 C - I R M EP]
EC - G01R-019/165G2
G05F-003/24
G11C-005/14B
G11C-005/14D
DS - DE FR GB IT
DT - Basic

1 / 1 LEGALI - ©EPO

PN - EP0627817 A1 19941207 [EP-627817]EP0627817 B1 19990407 [EP-627817]
AP - EP94303084 19940428 [1994EP-0303084]

ACT - 19941207 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
BENANNTE VERTRAGSSTAATEN
DE FR GB IT

19950712 EP/17P-A [+]
REQUEST FOR EXAMINATION FILED
PRUEFUNGSANTRAG GESTELLT
EFFECTIVE DATE: 19950513

19970102 EP/17Q-A [+]
FIRST EXAMINATION REPORT
ERSTER PRUEFUNGSBESCHEID
EFFECTIVE DATE: 19961114

19990224 EP/RAP3-A
APPLICANT CHANGE OF NAME (CORRECTION)
ANMELDER NAMENSAENDERUNG (KORR.)
OWNER: STMICROELECTRONICS, INC.

19990407 EP/AK-A [+]
DESIGNATED CONTRACTING STATES:
BENANNTE VERTRAGSSTAATEN
DE FR GB IT

19990512 EP/REF-A
CORRESPONDS TO:
ENTSPRICHT
(DE 69417622 19990512 [DE69417622])

19990806 EP/ET-A [+]
FR: TRANSLATION FILED
FR: TRADUCTION A ETE REMISE

20000329 EP/26N-A [+]
NO OPPOSITION FILED
KEIN EINSPRUCH EINGELEGT

20020101 EP/REG-A; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
<GB>

20051228 EP/GBPC-A [-]
GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE
GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE
EFFECTIVE DATE: 20050428

20060127 EP/REG-A; FR/ST [-]
FR: LAPSED
FR: CONSTATATION DE DECHEANCES
<FR>
EFFECTIVE DATE: 20051230

UP - 2006-07

3 / 4 PLUSPAT - ©QUESTEL-ORBIT - image

PN - JP7078481 A 19950320 [JP07078481]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) DIRECT-CURRENT SUM BAND-GAP VOLTAGE COMPARATOR
PA - (A) SGS THOMSON MICROELECTRONICS
PA0 - (A) SGS THOMSON MICROELECTRON INC
IN - (A) UIRIAMU EI SUREMAA
IN0 - (A) SLEMMER WILLIAM CARL
IC - (A) G05F-003/24 G05F-003/30 G11C-011/413
AP - JP9232494 19940428 [1994JP-0092324]
PR - US5630193 19930430 [1993US-0056301]
ICAA - G01R-019/165 [2006-01 A - I R M EP]; G05F-003/24 [2006-01 A - I R M EP]; G11C-005/14 [2006-01 A - I R M EP]
ICCA - G01R-019/165 [2006 C - I R M EP]; G05F-003/08 [2006 C - I R M EP]; G11C-005/14 [2006 C - I R M EP]
FI - G05F3/24 Z; G05F3/30; G11C11/34 335B
FTM - 5B015 AA08; 5B015 BA52; 5B015 CA02; 5H420 NA12; 5H420 NA15; 5H420 NA16; 5H420 NA27; 5H420 NB02; 5H420 NB15; 5H420 NC02; 5H420 NC26; 5H420 NC32; 5H420 NC36; 5H420 NE17; 5B015 JJ12; 5B015 JJ37; 5B015 KB65; 5B015 KB72; 5B015 KB73; 5B015 QQ10; 5B015 QQ14

4 / 4 PLUSPAT - ©QUESTEL-ORBIT - image

PN - US5781043 A 19980714 [US5781043]
STG - (A) United States patent
TI - (A) Direct current sum bandgap voltage comparator
PA - (A) SGS THOMSON MICROELECTRONICS (US)
PA0 - SGS-Thomson Microelectronics, Inc., Carrollton TX [US]
IN - (A) SLEMMER WILLIAM CARL (US)
IC - (A) H03K-005/22
AP - US93293097 19970918 [1997US-0932930]
PR - US5630193 19930430 [1993US-0056301]
US60623396 19960223 [1996US-0606233]
US93293097 19970918 [1997US-0932930]
ICAA - G01R-019/165 [2006-01 A - I R M EP]; G05F-003/30 [2006-01 A - I R M EP]; G11C-005/14 [2006-01 A - I R M EP]
G05F-003/26 [2006-01 A - N R M EP]
ICCA - G01R-019/165 [2006 C - I R M EP]; G05F-003/08 [2006 C - I R M EP]; G11C-005/14 [2006 C - I R M EP]
EC - G01R-019/165G2
G05F-003/30
G11C-005/14B
ICO - S05F-003/26A
PCL - ORIGINAL (O) : 327078000; CROSS-REFERENCE (X) : 327077000 327361000 327539000 327541000 327542000 327543000
DT - Basic

1/1 LEGALI - ©EPO

PN - US5781043 A 19980714 [US5781043]

AP - US93293097 19970918 [1997US-0932930]

ACT - 20000829 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000714

UP - 2003-22

Search statement 2

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Terms and Connectors Natural Language

5781043 or 5,781043

Search: Full-text of source documents Search Advanced

Table of Contents (TOC) only

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- TITLE 1. GENERAL PROVISIONS
- TITLE 2. THE CONGRESS
- TITLE 3. THE PRESIDENT
- TITLE 4. FLAG AND SEAL, SEAT OF GOVERNMENT, AND THE STATES
- TITLE 5. GOVERNMENT ORGANIZATION AND EMPLOYEES
- TITLE 6. DOMESTIC SECURITY
- TITLE 7. AGRICULTURE
- TITLE 8. ALIENS AND NATIONALITY
- TITLE 9. ARBITRATION
- TITLE 10. ARMED FORCES
- TITLE 11. BANKRUPTCY
- TITLE 12. BANKS AND BANKING
- TITLE 13. CENSUS
- TITLE 14. COAST GUARD
- TITLE 15. COMMERCE AND TRADE
- TITLE 16. CONSERVATION
- TITLE 17. COPYRIGHTS
- TITLE 18. CRIMES AND CRIMINAL PROCEDURE
- TITLE 19. CUSTOMS DUTIES
- TITLE 20. EDUCATION
- TITLE 21. FOOD AND DRUGS
- TITLE 22. FOREIGN RELATIONS AND INTERCOURSE
- TITLE 23. HIGHWAYS
- TITLE 24. HOSPITALS AND ASYLUMS
- TITLE 25. INDIANS
- TITLE 26. INTERNAL REVENUE CODE
- TITLE 27. INTOXICATING LIQUORS
- TITLE 28. JUDICIARY AND JUDICIAL PROCEDURE
- TITLE 29. LABOR
- TITLE 30. MINERAL LANDS AND MINING
- TITLE 31. MONEY AND FINANCE
- TITLE 32. NATIONAL GUARD
- TITLE 33. NAVIGATION AND NAVIGABLE WATERS
- TITLE 34. [NAVY]
- TITLE 35. PATENTS
- TITLE 36. PATRIOTIC AND NATIONAL OBSERVANCES, CEREMONIES, AND ORGANIZATIONS
- TITLE 37. PAY AND ALLOWANCES OF THE UNIFORMED SERVICES
- TITLE 38. VETERANS' BENEFITS
- TITLE 39. POSTAL SERVICE
- TITLE 40. PUBLIC BUILDINGS, PROPERTY, AND WORKS
- TITLE 41. PUBLIC CONTRACTS
- TITLE 42. THE PUBLIC HEALTH AND WELFARE
- TITLE 43. PUBLIC LANDS
- TITLE 44. PUBLIC PRINTING AND DOCUMENTS
- TITLE 45. RAILROADS
- TITLE 46. SHIPPING
- TITLE 47. TELEGRAPHS, TELEPHONES, AND RADIOTELEGRAPHS

⊕ ☐ TITLE 48. TERRITORIES AND INSULAR POSSESSIONS
⊕ ☐ TITLE 49. TRANSPORTATION
⊕ ☐ TITLE 50. WAR AND NATIONAL DEFENSE

1 - 50 of 50

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Combined Source Set 14 - Intellectual Property Cases, Administrative Decisions & Regulations; Federal Register and CFR - Titles 19 and 37; Federal Register Documents Relating To Patent Issues; U.S. Patent & Trademark Office Decisions, Combined; Intellectual Property Law Review Articles, Combined; Patent, Trademark & Copyright Periodicals, Combined; Intellectual Property Law, Combined

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w/seg	in same segment
w/s	in same sentence
and not	and not

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pre /N	precedes by N words
w/p	in same paragraph
w/seg	in same segment
w/s	in same sentence
and not	and not

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- Use a less restrictive date range.

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